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Annual Index — 2002

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PREFACE

This annual index of Mathematical Reviews (MR) is included with each subscription and is also available separately. It is also called Volume 34 of the Index of Mathematical Papers (IMP). Volumes 6–9 of IMP are the annual indexes of MR for the years 1974–77 and are available as a set. The 1978 annual index was the first to be included with each subscription. There are cumulative author indexes to MR that cover 1940–59 (Vols. 1–20), 1960–64 (Vols. 21–28) and 1965–72 (Vols. 29–44), subject indexes for 1940–58 (Vols. 1–19) and 1959–72 (Vols. 20–44), and author and subject indexes for 1973–79 (Vols. 45–58) and 1980–84.

The classification scheme used in the present index is the 2000 Mathematics Subject Classification (MSC2000). A copy of the MSC2000 is printed in the back of the subject portion of this index.

The entries in the author, key and subject indexes are comprised of all items reviewed in MR during a given year and some items which will not be reviewed by MR but which have appeared in Current Mathematical Publications (CMP). A star (★) preceding a title indicates a book or other item that is reviewed as a whole. The symbol Ⓥ preceding a title indicates that the item is a videocassette.

Author index; separate key index

The entries in the author and key indexes give full bibliographic information. These entries are accompanied by review numbers {if available} and classification numbers; secondary classification numbers are given in parentheses. Entries are listed alphabetically by author; entries having several authors are listed in full under each author. Surnames consisting of more than one part (e.g., de Bruin, van den Berg) are listed under the first capital letter. Collections of papers, proceedings, bibliographies, tables, etc. that are edited rather than authored are listed in the key index by title and by location of the conference, workshop, etc., when applicable. For example, the publication entitled *Analytic number theory* is listed under **Analytic number theory** and under the location of the conference. Some monographic series (e.g., American Mathematical Society Translations, Series 2) have entries under the series title in this index.

Arrangement of entries in the author and key indexes

For a given heading (i.e., the preferred name of an author, or a title), full entries are listed in order of nominal publication dates; the cross-references are in MR number order after the full entries. The arrangement of each entry is the same as in the heading of its review in MR. The general form for entries is as follows:

Books, Monographs. (Coauthors {if necessary}) ★Title. (Language of original {if necessary}. Summary languages {if necessary}) [English translation of title {if necessary}] Miscellaneous information {edition, editors, translators, series, etc.}. Publisher, city, date. Pagination. ISBN. (Reviewer's name) Review number {if available} Primary classification (Secondary classifications {if necessary}).

Journal article. (Coauthors {if necessary}) Title of article {in English translation if the original title is not in English, French or German}. (Language of original {if necessary}. Summary languages {if necessary}) [English translation of title {if necessary}] Journal abbreviation {including series number if necessary} Volume number(volume number in first series {if given}) (nominal date), issue number {if necessary}, pagination (imprint date {if necessary}). (Reviewer's name) Review number {if available} Primary classification (Secondary classifications {if necessary}).

The first five digits of the review number of an item refer to the MR issue in which the review is published and the last five digits refer to its position within that issue. The first two digits after the colon are the general subject classification of the item.

The phrase "EA 2002m" after an MR number indicates that an MR erratum or addendum to the review appears at the end of the 2002m issue.

Subject index

The entries in the subject index are arranged in classification order. For a given classification, all entries with that classification as a primary appear first, with authored entries appearing before unauthored entries. These are followed by entries with that classification as a secondary. Again, authored entries appear before unauthored entries. Each section under a given classification is arranged in alphabetical order. For each entry, the author(s), title, language, translated title {if necessary} and the review number {if available} appear at the first author only. The entries for subsequent authors are cross-references to the first author. Complete bibliographic information is available in the annual author and key indexes as well as in the MR review.

Cross-references

There are four kinds of cross-references in these indexes:

Name variations. An author's preferred name is the variation of the name that MR has chosen on the basis of frequency and currency of usage. Items by a given author are usually listed under the author's preferred name. In the author index, cross-references to the preferred form are given from sufficiently distinct alternative forms of the author's name.

Authors in other capacities. In the author index, the names of persons associated with an item in a capacity other than that of author (e.g., editor, translator, subject of a biography, etc.) are also listed. In the subject index, such names appear in parentheses. In both indexes these items occur only as cross-references to complete listings.

Key entries. Cross-references for such entries as bibliographies, obituaries and references to special events are made to the authors of the papers in which these items appear, e.g. **Bibliography: Kähler, Erich** *see* **Berndt, R., 2002j:01015**.

Unreviewed entries. Some entries in these indexes have not been reviewed in MR (e.g., items that do not appear to be in final form, or that are at the fringes of MR's scope) although they have been listed in CMP. Unreviewed items appear in the author, key and subject indexes in a format similar to that of reviewed items. For unreviewed items that are part of a collection, the review number in parentheses is a cross-reference to the table-of-contents review, i.e. (see 2002x:xxxxx) or (2002x:xxxxx). For unreviewed items that are not part of a collection, there is no review number cross-reference.

Transliteration

Since 1983, MR has used the Cyrillic transliteration in use by ANSI, LC, Zbl, ISI, and others. This is also the system used throughout this index. A Cyrillic transliteration table appears at the end of the author/key index.

Names of Chinese authors

The name of a Chinese author appears in the index in Western form. For example, Chen Xie Bin will be listed as Chen, Xie Bin, as though the author's name were Xie Bin Chen. The pinyin transliteration is used for mainland Chinese authors and the Wade-Giles transliteration is used for Taiwanese authors.

In an undertaking of this size, errors are inevitable, despite elaborate precautions and checks. The editors of Mathematical Reviews would be very glad to have their attention drawn to errors in this index and also in the earlier indexes.

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Aagaard, Mark *see* **Theorem proving in higher order logics, 2002h:68007**

Aalen, Odd O. (*with* Gjessing, Håkon K.) Understanding the shape of the hazard rate: a process point of view. (English summary) With comments and a rejoinder by the authors. *Statist. Sci.* **16** (2001), *no.* 1, 1–22. (Mervi Eerola) **2002e:62095** 62N05

van der Aalst, W. M. P. (*with* van Hee, K. M.; van der Toorn, R. A.) Component-based software architectures: a framework based on inheritance of behavior. (English summary) *Sci. Comput. Programming* **42** (2002), *no.* 2-3, 129–171. 68N01 (68Q85)

— (*with* Basten, T.) Inheritance of workflows: an approach to tackling problems related to change. (English summary) *Theoret. Comput. Sci.* **270** (2002), *no.* 1-2, 125–203. (Summary) **2002h:68142** 68Q85 (68N19, 90B70)

Aamo, O. M. (*with* Arcak, Murat; Fossen, T. I.; Kokotović, Petar V.) Global output tracking control of a class of Euler-Lagrange systems with monotonic non-linearities in the velocities. (English summary) *Internat. J. Control* **74** (2001), *no.* 7, 649–658. (Summary) **2002a:93124** 93D21 (93C10)

Aamri, M. (*with* Chaira, K.) Propriétés de tonnelage dans les groupes topologiques et théorème du graphe fermé. (English summary) [Barrelledness in topological groups and the closed graph theorem] *Rend. Sem. Mat. Messina Ser. II* **5(20)** (1998), 5–18 (2000). (I. Tweddle) **2002c:22001** 22A10 (46A08, 46A30)

— (*with* Chaira, K.) Espaces super-ultratonnelés. (English summary) [Super-ultrabarrelled spaces] *Rend. Sem. Mat. Messina Ser. II* **6(21)** (1999), 91–99 (2001). (P. Pérez Carreras) **2002f:46005** 46A08 (46A30)

Aardal, Karen (*with* Hurkens, Cor A. J.; Lenstra, Arjen K.) Solving a system of linear Diophantine equations with lower and upper bounds on the variables. (English summary) *Math. Oper. Res.* **25** (2000), *no.* 3, 427–442. (Florian Luca) **2002g:90058** 90C10 (11Y50)

Aaronson, Jon (*with* Denker, Manfred) Local limit theorems and weakly dependent processes. (English summary) *Trends in probability and related analysis* (*Taipei*, 1998), 77–82, *World Sci. Publishing, River Edge, NJ*, 1999. (Marc Peigné) **2002k:60056** 60F05 (60E07, 60F15, 60G10)

— (*with* Denker, Manfred) A local limit theorem for stationary processes in the domain of attraction of a normal distribution. (English summary) *Asymptotic methods in probability and statistics with applications* (*St. Petersburg*, 1998), 215–223, *Stat. Ind. Technol., Birkhäuser Boston, Boston, MA*, 2001. 60F17 (60G10)

— (*with* Denker, Manfred) Local limit theorems for partial sums of stationary sequences generated by Gibbs-Markov maps. (English summary) *Stoch. Dyn.* **1** (2001), *no.* 2, 193–237. (Dieter H. Mayer) **2002h:37014** 37A50 (28D05, 37A05, 60F05)

Aarts, Emile (*with* Hurkens, Cor A. J.; Lenstra, Jan Karel) Whizzkids: two exercises in computational discrete optimization. (English summary) *ICIAM 99* (*Edinburgh*), 141–152, *Oxford Univ. Press, Oxford*, 2000. (Summary) **2002a:90059** 90C27 (90–02, 90C90)

— (*with* Korst, Jan) Selected topics in simulated annealing. (English summary) *Essays and surveys in metaheuristics* (*Angra dos Reis*, 1999), 1–37, *Oper. Res./Comput. Sci. Interfaces Ser., Kluwer Acad. Publ., Boston, MA*, 2002. (*see* **2002e:90007**) 90C59 (90–02)

Aarts, Gert Spectral function at high temperature in the classical approximation. (English summary) *Phys. Lett. B* **518** (2001), *no.* 3-4, 315–322. (Summary) **2002i:81278** 81T99 (82C10)

Aarts, Jan M. (*with* Fokkink, Robbert J.; Kruijtzer, Godfried) Morphic numbers. (Dutch. Dutch summary) *Nieuw Arch. Wiskd.* (5) **2** (2001), *no.* 1, 56–58. (A. J. van der Poorten) **2002c:11019** 11B75 (00A69)

— (*with* Fokkink, Robbert J.) An addition theorem for the color number. (English summary) *Proc. Amer. Math. Soc.* **129** (2001), *no.* 9, 2803–2807 (*electronic*). (Richard P. Millspaugh) **2002c:54029** 54F45 (55M10)

Aarts, R. G. K. M. (*with* Jonker, J. B.) Dynamic simulation of planar flexible link manipulators using adaptive modal integration. (English summary) *Multibody Syst. Dyn.* **7** (2002), *no.* 1, 31–50. 70B15 (70E60, 74K99)

Aasaraai, A. (*with* Mehri, B.) On the existence of periodic solutions for certain non-linear differential equations. (English summary) *J. Sci. Islam. Repub. Iran* **12** (2001), *no.* 1, 49–56. (Rafael Ortega) **2002d:34024** 34B15 (34C25)

Aase, Knut K. An equilibrium asset pricing model based on Lévy processes: relations to stochastic volatility, and the survival hypothesis. (English summary) *Insurance Math. Econom.* **27** (2000), *no.* 3, 345–363. (Aleksandras Baltrūnas) **2002g:91075** 91B28 (60G51)

— (*with* Øksendal, Bernt; Ubøe, Jan) Using the Donsker delta function to compute hedging strategies. (English summary) *Potential Anal.* **14** (2001), *no.* 4, 351–374. (Angelos Dassios) **2002c:91051** 91B28 (60H40)

— On the St. Petersburg paradox. (English summary) *Scand. Actuar. J.* **2001**, *no.* 1, 69–78. 60G99

Aassila, Mohammed (*with* Cavalcanti, Marcelo M.) On nonlinear hyperbolic problems with nonlinear boundary feedback. (English summary) *Bull. Belg. Math. Soc. Simon Stevin* **7** (2000), *no.* 4, 521–540. (Akira Tsutsumi) **2002c:35184** 35L70 (35B40, 35D05, 35L20)

— Exact boundary controllability of the plate equation. (English summary) *Differential Integral Equations* **13** (2000), *no.* 10-12, 1413–1428. (Peng Fei Yao) **2002e:93012** 93B05 (74K20, 74M05)

— Contrôlabilité exacte d'un problème de transmission. (English and French summaries) [Exact controllability of a transmission problem] *C. R. Acad. Sci. Paris Sér. I Math.* **332** (2001), *no.* 2, 163–166. (Angelo Favini) **2002b:93009** 93B05 (93C20)

— Calcul pseudo-différentiel et équations d'évolution non linéaires sur les variétés compactes. (English and French summaries) [Pseudo-differential calculus and nonlinear evolution equations on compact manifolds] *C. R. Acad. Sci. Paris Sér. I Math.* **333** (2001), *no.* 7, 617–622. (Summary) **2002h:35231** 35Q30 (35S50, 47G30, 58J40, 76D03)

— Global existence of solutions to a wave equation with damping and source terms. (English summary) *Differential Integral Equations* **14** (2001), *no.* 11, 1301–1314. (Akira Tsutsumi) **2002j:35212** 35L70 (35B40)

— Some results on Heron triangles. *Elem. Math.* **56** (2001), *no.* 4, 143–146. (Andrew Bremner) **2002j:11023** 11D25 (51M04)

— (*with* Benaissa, Abbès) Existence globale et comportement asymptotique des solutions des équations de Kirchhoff moyennement dégénérées avec un terme non-linéaire dissipatif. [Global existence and asymptotic behavior of solutions of mildly degenerate Kirchhoff equations with nonlinear dissipative term] *Funkcial. Ekvac.* **44** (2001), *no.* 2, 309–333. (Sergiu Aizicovici) **2002k:35201** 35L70 (35A05, 35B40)

— Nonexistence of global solutions of a hyperbolic problem. (English summary) *Math. Comput. Modelling* **34** (2001), *no.* 7-8, 761–769. (Yun Mei Chen) **2002i:35126** 35L70 (35Q30)

— A dynamical approach for the stability of second order dissipative systems. (English summary) *Differential Integral Equations* **15** (2002), *no.* 4, 463–475. (Mitsuhiro Nakao) **2002i:34090** 34D05 (34C12, 34D15, 34G20, 37L05, 49J45)

— Stability of dynamic models of suspension bridges. (English summary) *Math. Nachr.* **235** (2002), 5–15. (Wim T. van Horssen) **2002m:74021** 74H45 (35B40, 35L75, 35Q72, 74H20, 74H25)

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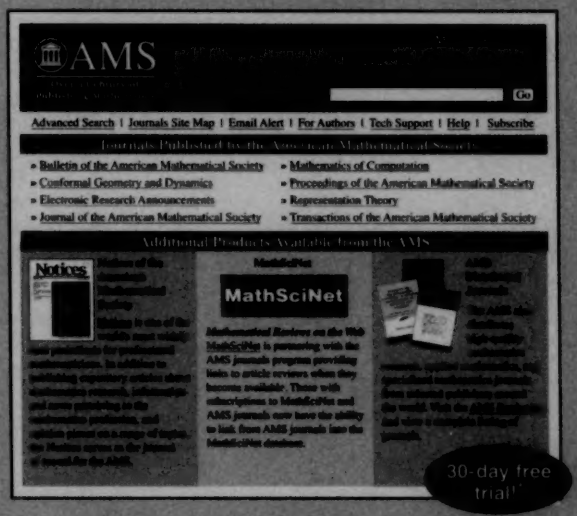
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